

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,540	09/03/2004	Yoshitada Oshida	520.44257X00	1191
20457	7590 09/07/2006		EXAMINER	
	LI, TERRY, STOUT &	RUTLEDGE, DELLA J		
1300 NORT	NORTH SEVENTEENTH STREET		ART UNIT	PAPER NUMBER
	N, VA 22209-3873	873	2851	
			DATE MAILED: 00/07/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/506,540	OSHIDA ET AL.
Office Action Summary	Examiner	Art Unit
	D. Rutledge	2851
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 10 M	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,5,7,14-17 and 19-232 is/are reject 7) Claim(s) 4,6,13 and 18 is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.	
9) The specification is objected to by the Examine	г.	
10) ☐ The drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to by the I	Examiner.
Applicant may not request that any objection to the		• •
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	nte
Paper No(s)/Mail Date <u>05/06</u> .	6) 🔲 Other:	

Application/Control Number: 10/506,540

Art Unit: 2851

DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 3, 5, 7, 10 -12, 14 17, 19 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishi et al. (US Pat. No. 5,815,249).
- Claims 1, 5: In Fig. 12, the reference discloses an apparatus and method of illumination comprising two light sources 131A,B; an integrator having rod lens providing secondary light source images; a condenser receiving light from the integrator and forming overlapped light on an area to be illuminated. The light leaves the first integrator 141 and passes through a second integrator 143 that modulate and varies the wavefronts; claim 5, 14, 19.
- Claims 2, 11, 16: the shape of the light is the same a the shape of the region to be illuminated., square 151
- Claims 3, 12, 17: light source may be a laser, see col. 21, line 5
- Claims 7, 22, 23: detectors 135A, B detect the light intensity and the lamp PW source and exposure control system control the source energy
- Claims: 10, 15: Fig. 12 shows only a partial exposure apparatus, Fig. 1 shows the projection system 15 and exposure target 16.

Art Unit: 2851

Claims 20, 21: the relay lens 142, 144 control the divergence angle of the light

3. Claims 1, 3, 7 - 10, 12, 15, 17, 22, 23 are rejected under 35 USC 102(b) as being anticipated by Japanese reference (JP 2001-085308).

Claims 1, 10, 15: the apparatus is shown in Fig. 1; an integrator 110; projection system PL and target W.

Claims 3, 12, 17: light source is a laser

Claims 7, 22, 23: detector 115 detect the light intensity and the lamp PW source and exposure control system control the source energy

Claims 9: the overlapping is controlled as claimed

Claims: 10, 15: shows only a partial exposure apparatus, Fig. 1 shows the projection system 15 and exposure target 16.

Allowable Subject Matter

- 4. Claims 4, 6,13, 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter: the references do not appear to disclose the aspect ratios and the condenser directing the light into an integrator. The Japanese reference has not been translated, upon translation some of the claims listed in paragraph 4 may be rejected.

Response Data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Rutľedge ✓ Primary Examiner Art Unit 2851

dr 9/5/2006